

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF US 301 (CRAIN HIGHWAY) AT CLYMER DRIVE IN PRINCE GEORGE'S COUNTY. GEOMETRIC MODIFICATIONS ARE PROPOSED TO WIDEN THE WEST LEG. AS A RESULT, THE MAST ARM STRUCTURE IN THE SOUTHWEST CORNER WILL BE REPLACED. THE EXISTING SOUTHBOUND VIDEO DETECTION CAMERA IS PROPOSED TO BE RELOCATED. US 301 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC ACTUATED MODE. EXCLUSIVE LEFT-TURN PHASING WILL BE MAINTAINED ON US 301. THE EAST- AND WESTBOUND SIDE STREET SPLIT WILL ALSO BE MAINTAINED. THE EXISTING LEAD/LAG OPERATION WILL ALSO BE MAINTAINED FOR NORTH- AND SOUTHBOUND LEFT TURNS.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED TRAFFIC SIGNAL CONTROLLER WILL REMAIN.

THE CONTACT PERSONS FOR DISTRICT #3/OOTS ARE AS FOLLOWS:

District #3

Mr. Brian Young
Assistant District Engineer - Traffic
Phone: 301-513-7409

Mr. Augie Rebish
District Utility Engineer
Phone: 301-513-7350

Mr. Wayne Mowdy
Assistant District Engineer - Maintenance
Phone: 301-513-7304

Mr. Kevin Nowak
Assistant District Engineer - Construction
Phone: 301-513-7336

Office of Traffic & Safety

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: 410-787-7630

Mr. Robert Snyder
Assistant Division Chief, Traffic Operations
Phone: 410-787-7630

Mr. Edward Rodenhizer
Chief, SHA Traffic Signal Shop
Phone: 410-787-7650

Mr. Eugene Bailey
Team Leader Sign Operation
410-787-7670

The Power Company Representative is:
Southern Maryland Electrical Cooperative
4061 Powder Mill Road, Suite 600
Calverton, Maryland 20705
Phone: 301-931-2880

EQUIPMENT LIST 'A'

APPROVED SHA EQUIPMENT TO BE PURCHASED BY THE DEVELOPER AND INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

CAT CODE	QUANTITY	DESCRIPTION
800000	1 EA	RELOCATE EXISTING VIDEO DETECTION CAMERA
800000	59 SF	FURNISH AND INSTALL SHEET ALUMINUM SIGNS - MAST ARM/GROUND MOUNT
		1 EA - SHIELD ASSEMBLY (48"x75") "SOUTH, US 301, LEFT ARROW"
		1 EA - SHIELD ASSEMBLY (30"x51") "SOUTH, US 301, RIGHT ARROW"
		2 EA - R3-5L (30"x36")
		1 EA - R3-6L (30"x36")
816005	1 EA	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
818052	1 EA	STEEL POLE WITH 70 FOOT MAST ARM
831010	1 EA	250 WATT HPS LAMP AND LUMINAIRE
860284	18 EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
866104	1 EA	20 FOOT LIGHTING ARM ON SIGNAL STRUCTURE

EQUIPMENT LIST 'B'

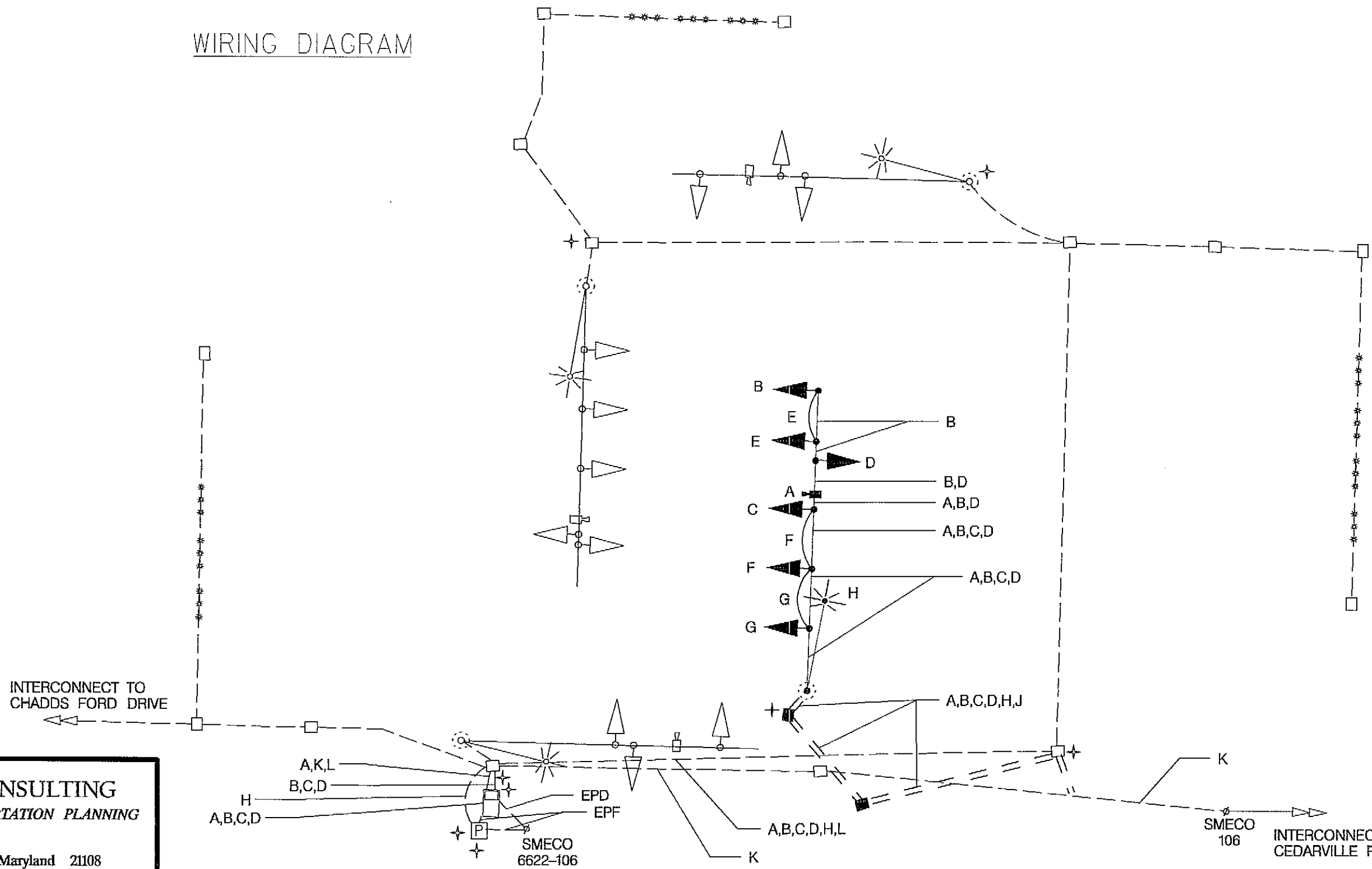
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CAT CODE	QUANTITY	DESCRIPTION
120500	1 LS	MAINTENANCE OF TRAFFIC
203030	1 CY	TEST PIT EXCAVATION
585424	25 LF	24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
800000	1 LS	REMOVE AND DISPOSE OF TRAFFIC SIGNAL EQUIPMENT
800000	600 LF	DISCONNECT, PULL-BACK AND RE-ROUTE EXISTING ELECTRICAL CABLE
801101	5 CY	CONCRETE FOR SIGNAL FOUNDATION
802501	100 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805118	30 LF	1/2 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - BORED
805135	60 LF	3/4 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
811011	2 EA	ELECTRICAL HANDHOLE
813006	11 SF	RELOCATE SIGNS FROM EXISTING STRUCTURE
822500	1 EA	AS BUILT FOR SHA ON CADD
837001	1 EA	GROUND ROD - 3/4 INCH DIAMETER BY 10 FOOT LENGTH
861107	100 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	750 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
861116	350 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG), TC

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
PHASE 1 + 6	→G	→G	G	G	G	→R	→R	→R	R	R	R	R	R	R	R	R	R	→
PHASE 1 CHANGE	→Y	→Y	G	G	G	→R	→R	→R	R	R	R	R	R	R	R	R	R	→
PHASE 2 + 6	→R	→R	G	G	G	→R	→R	→R	G	G	G	R	R	R	R	R	R	→
PHASE 6 CHANGE	→R	→R	Y	Y	Y	→R	→R	→R	G	G	G	R	R	R	R	R	R	→
PHASE 2 + 5	→R	→R	R	R	R	→G	→G	→G	G	G	G	R	R	R	R	R	R	→
PHASE 2 + 5 CHANGE	→R	→R	R	R	R	→Y	→Y	→Y	Y	Y	Y	R	R	R	R	R	R	→
PHASE 3	→R	→R	R	R	R	→R	→R	→R	R	R	R	G	G	G	R	R	R	→
PHASE 3 CHANGE	→R	→R	R	R	R	→R	→R	→R	R	R	R	Y	Y	Y	R	R	R	→
PHASE 4	→R	→R	R	R	R	→R	→R	→R	R	R	R	R	R	R	G	G	G	→
PHASE 4 CHANGE	→R	→R	R	R	R	→R	→R	→R	R	R	R	R	R	R	Y	Y	Y	→
FLASHING OPERATION	FL/RA	FL/RA	FL/Y	FL/Y	FL/Y	FL/RA	FL/RA	FL/RA	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	→

WIRING DIAGRAM



LENHART TRAFFIC CONSULTING
TRAFFIC ENGINEERING & TRANSPORTATION PLANNING

331 Redwood Grove Court Millersville, Maryland 21108
Tel: (410) 987-3888 Fax: (443) 782-2288

NOTE:

THESE PLANS ARE APPROVED FOR CONSTRUCTION FOR A PERIOD OF ONE (1) YEAR. SHOULD CONSTRUCTION NOT BEGIN WITHIN THIS TIME FRAME, THESE PLANS SHALL BE NULL AND VOID WITH A RE-REVIEW REQUIRED FROM THE TRAFFIC ENGINEERING DESIGN DIVISION.

EAPD PERMIT NO. _____

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

CAT CODE QUANTITY DESCRIPTION

NONE - ALL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

US 301 (CRAIN HIGHWAY) AT
CLYMER DRIVE/MATAPEAKE BUSINESS DRIVE

GENERAL INFORMATION

SCALE NONE DATE JANUARY 2009 CONTRACT NO. BW996M82

DESIGNED BY MML COUNTY PRINCE GEORGE'S
DRAWN BY MML LOGMILE 16030100.77
CHECKED BY MML T.I.M.S. NO. J334
F.A.P. NO. N/A TOD NO.

DRAWING NO. TS-4065-C-GI OF

SHEET NO. OF